

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/31532

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/59; C07C 401/00

US CL : 514/167; 552/653

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 514/167; 552/653

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X

US 6,566,353 B2 (BISHOP et al) 20 May 2003 (20.05.2003), see the entire document, especially lines 52-67 in col. 2, lines 1-65 in col. 3, examples, and claims.

2, 7, 8

☐ Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

10 December 2004 (10.12.2004)

Date of mailing of the international search report

10 FEB 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Sabiha Qazi

Telephone No. (703) 308-1234

Jean Proctor

Baraleya Special

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 1,5,6 and 9-22
because they relate to subject matter not required to be searched by this Authority, namely:
Please See Continuation Sheet
2. ☒ Claims Nos.: 3 and 4
because they relate to parts of the international application that do not comply with the prescribed requirements to such
an extent that no meaningful international search can be carried out, specifically:
Please See Continuation Sheet
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all
searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite
payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report
covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐
☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

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Box II Observations where certain claims were found unsearchable 1. because they relate to subject matter not required to be searched by this Authority, namely:
Claims 1, 5, 6, and 9-22 objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 1, 5, 6, and 9-22 are indefinite for the following reason(s):

Claims 1, 5, 6, and 9-22 are objected to because the term "use of" is improper. There are no steps in the method claims.

Continuation of Box II Reason 2:

Claims 3 and 4 objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 3 and 4 are indefinite for the following reason(s):

Claims 3 and 4 are objected to because no meaningful search can be carried out. There are no steps for the method claims on how to obtain and/or synthesize vitamin D3 compounds.

Continuation of B. FIELDS SEARCHED Item 3:

STN, HCAPLUS, HCAOLD, REGISTRY, USPATFULL, INTERNET VIA A9.com, STN STRUCTURE SEARCH, MARPAT